

We Claim:

1. A method for modulating the density and/or distribution of angiotensin II receptors in a mammal, comprising the step of administering an effective amount of an insulin-like growth factor-1 (IGF-1) compound sufficient to reduce angiotensin II receptors in the kidney of said mammal.
2. The method of claim 1, wherein said IGF-1 compound is selected from the group consisting of IGF-1, IGF-2, des(1-3) IGF-1.
3. The method of claim 1 wherein the angiotensin II receptors are angiotensin II type 1 receptors and wherein their density, distribution, and potential for signal transduction are down-regulated.
4. The method of claim 1 wherein the angiotensin II receptors are angiotensin II type 2 receptors and wherein their density, distribution and potential for signal transduction are up-regulated.
5. The method of claim 1, wherein the mammal is human.
6. The method of claim 1, wherein said angiotensin II receptors are decreased in at least one tissue selected from kidney glomeruli, proximal tubules and distal tubules.
7. The method of claim 1, wherein the effective amount of said IGF-1 compound is administered in a form of a pharmaceutical composition including a pharmaceutically acceptable carrier thereof.
8. The method of claim 1, wherein the effective amount of IGF-1 compound is administered by way of administration of a replicable vehicle encoding for said IGF-1.

9. The method of claim 1, wherein the effective amount of IGF-1 compound is administered by intramuscular injection, subcutaneous injection, intraperitoneal injection or by implant.
- 5 10. The method of claim 1, wherein the said effective amount of IGF-1 compound is administered through an intravenous, transdermal, transmucosal, oral or epidural route.
11. The method of claim 1, wherein the effective amount of said IGF-1 compound is between 0.1 $\mu\text{g/kg/day}$ and about 1 mg/kg/day .
- 10 12. A method for decreasing the expression of angiotensin II receptors in a mammal, comprising administering to said mammal an amount of a compound effective to increase the concentration of IGF-1 in said mammal.
- 15 13. The method of claim 12 wherein the increase of the concentration of IGF-1 or IGF-I analog is by about 0.1 $\mu\text{g/kg/day}$ to about 1 mg/kg/day .
14. A method for reducing hypertension associated with increased expression of angiotensin II receptors in a mammal, comprising the step of administering an effective
20 amount of an IGF-1 compound along with an effective amount of an inhibitor of angiotensin converting enzyme (ACE).
15. The method of claim 14, wherein said ACE inhibitor is selected from the group consisting of captopril, cilazapril, enalapril, fosinopril, imidapril, lisinopril, moexipril,
25 perindopril, quinapril, ramipril and trandolapril.
16. A method for reducing hypertension associated with increased expression of angiotensin II receptors in a mammal, comprising the step of administering an effective amount of an IGF-1 compound along with an effective amount of an angiotensin II
30 receptor antagonist.

17. The method of claim 16, wherein said angiotensin II receptor is selected from the group consisting of angiotensin II antagonist can be selected from a group that includes candesartan, irbesartan, losartan, telmisartan and valsartan.

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18. A method for enhancing the antihypertensive and renoprotective properties of ACE inhibitors and angiotensin II antagonists comprising the step of administering to a mammal an effective amount of an insulin-like growth factor-I (IGF-I) compound, where an IGF-I compound comprises IGF-I, a biologically active IGF-I analog, a

10 biologically active IGF-I mimetic, a compound that increases the concentration of IGF-I, or a compound that increases the concentration of IGF-I analogs in combination with the said ACE inhibitor or the said angiotensin II antagonist.